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	AR	1	Adams, M.D.		emer	ntary DNA Sequencing: Expresse			gs and Huma	an Genome	
2	AS	1	Adams, M.D. (1992)	et al., "Seque	nce	identification of 2,375 human	n brair	n genes,	™ Mature 35	5:632-634	
2	Aggarwal, B.B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," Eur. Cytokine Netw. A.D:93-124 (April-June 1996)										
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2	AR	2 Altschul, S	.F. et 31., "Basic	: Local Alignment Search Tod	o l," J. Mol	Biol. 215:403-4	10 (1990)			
2	AS	Ansari, A.A	. et al., "HLA-D g lamunouenet. 33:2	gene studies in relation to 4-32 (1991)	immune resp	onsiveness to a	grass allergen			
	ΑT	Armitage, R	.J., "Tumor necros g^{j} ℓ :407-413 (June	sis factor receptor superfar 1994)	mily members	and their liga	nds," Curr.			
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2	AS	<u>5</u>	Camerini, D Factor/Tumo	. et al., "The T r Necrosis Facto	Cell Activation Antigen C r Receptor Gene Family,"	CD27 Is a Me]. Immunol.	mber of 347(9):3	the Nerve G 3165-3169 (1	rowth 991)
V	AT	Chinnaiyan, A.M. et al., "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," Science 274:990-992 (November 1996)							
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V	AS	6	Engelmann, Biol. Chem.	ann, H. ∂t ∂l , "Two Tumor Necrosis Factor-binding Proteins Purified from Human Urine," $J.$ Them. $265(3)$:1531-1536 (1990)						
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2	Goodwin, R.G. et a^{j} ., "Molecular cloning of a ligand for the inducible T cell gene 4-1BB: a member of an emerging family of cytokines with homology to tumor necrosis factor," Eur. j. Immunol. 23:2631-2641 (1993)									
2	AT	7	Gruss, H Cell Lines	Gruss, HJ <i>et al.</i> , "Pleiotropic Effects of the CD30 Ligand on CD30-Expressing Cells and Lymphoma Cell Lines," <i>Blood Rect</i> :2045-2056 (April 1994)						
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2	AS	Hohmann, HP. et 37., "Two Different Cell Types Have Different Major Receptors for Human Tumor Necrosis Factor (TNF-c)," 3. B101. Chem. 264(25):14927-14934 (1989)							
V	AT	8	Repeat Prote	ard, S.T. et al., "Vaccinia Virus Homologues of the Shope Fibroma Virus Inverted Terminal eat Proteins and a Discontinuous ORF Related to the Tumor Necrosis Factor Receptor Family," ol. 180:633-647 (1991)					
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Marsters, S. et al., "Apo-3, a new member of the tumor necrosis factor receptor family a death domain and activates apoptosis and NF-xB," Current Biology 6:1669-1676 (December	, contains er 1996)
Montgomery, R.I. et al., "A New Member of the TNG/NGF Receptor Family Can Mediate Herp Virus 1 Entry Into Cells," Eur. Cytokine Netw. 7/2):159, Abstract No. L7 (1996)	es Simplex
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	AT	<u>15</u>	Pollok, K.E	. et al., "Induc	ible T Cell Antigen 4-1BB	,•) Immun⊖	1. 1507	3): 771-781 (1993)
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2	AS	<u>17</u>	Schall, T.J Factor," <i>Ce</i>	. et al., "Moleo ll 61:361-370 (°	cular Cloning a	and Expression of a	Receptor	for Human Tumo	or Necrosis		
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2	AR	<u>26</u>	EST-STS Data	abase on MASPAR,	The	WashU-Merck EST Project, Ac	cessio	on No. H	146378 (July	/ 1995)	
\sim	AS 26 EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. H46424 (July 1995)										
	AT 26 NCBI Entrez, GenBank Report, Accession No. H19739, from Hillier, L. et al. (July 1995)										
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Page 27 of 35 ATTY. DOCKET NO. APPLICATION NO. 1488.0310005 09/333,966 FORM PTO-1449 APPLICANT Yu et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 16, 1999 1646 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AΑ ΑB AC AD ΑE ΑF $\mathsf{A}\mathsf{G}$ ΑН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER TRANSLATION SUB-CLASS INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS Yes ΑL Νo Yes ΑM Yes AN No Yes AO No Yes ΑP Νo OTHER (Including Author, Title, Date, Pertinent Pages, etc.) <u>27</u> NCBI Entrez, GenBank Report, Accession No. H22502, from Hillier, L. 4t al. (July 1995) AS <u>27</u> NCBI Entrez, GenBank Report, Accession No. H41522, from Hillier, L. et 31. (July 1995) NCBI Entrez, GenBank Report, Accession No. N63660, from Hillier, L. et al. (March 1996) ΑТ <u>27</u> DATE CONSIDERED EXAMINER C> 0 TOL_ 16-EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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Page 31 of 35 ATTY. DOCKET NO. APPLICATION NO. 1488.0310005 09/333,966 FORM PTO-1449 APPLICANT Yu 🖅 😅 INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 16, 1999 1646 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS | FILING DATE AΑ AB AC AD ΑE ΑF AG ΑН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes ΑL No Yes ΑM No Yes AN No Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) <u>31</u> NCBI Entrez, GenBank Report, Accession No. AA524052, from NCI-CGAP (August 1997) NCBI Entrez, GenBank Report, Accession No. AA088232, from Hillier, L. et al. (October 1996) AS <u>31</u> NCBI Entrez, GenBank Report, Accession No. AA631757, from NCI-CGAP (October 1997) ΑТ <u>31</u> DATE CONSIDERED 5-16-50 EXAMINER JOLL UIL EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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